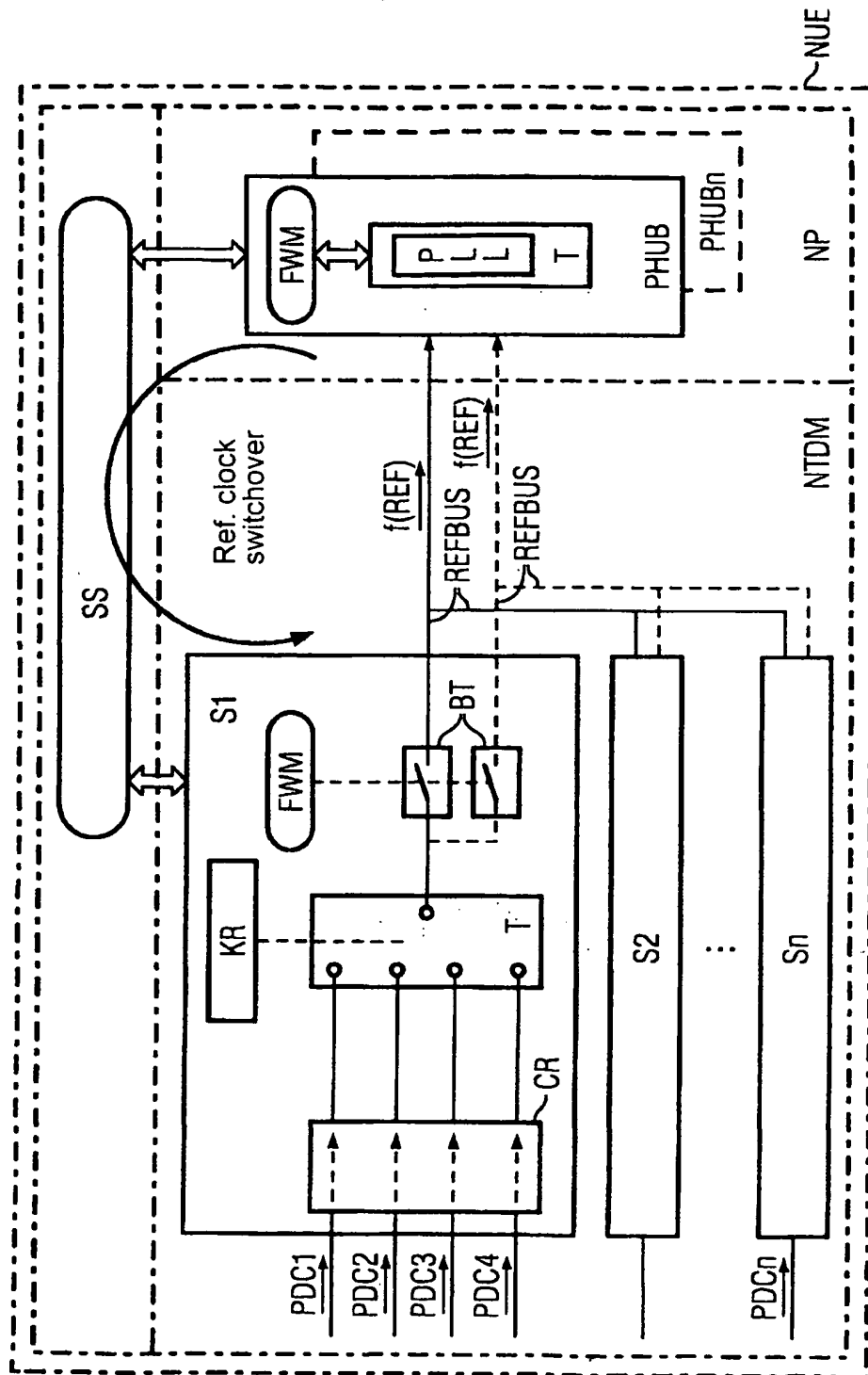


FIG 1



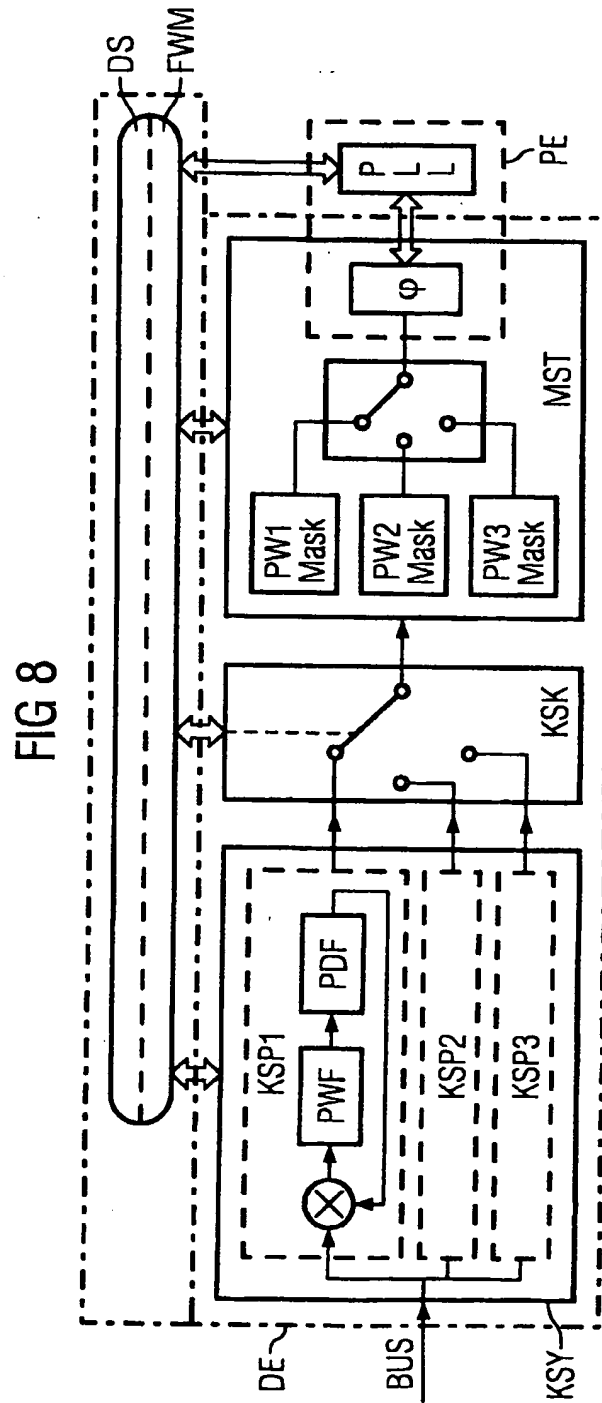
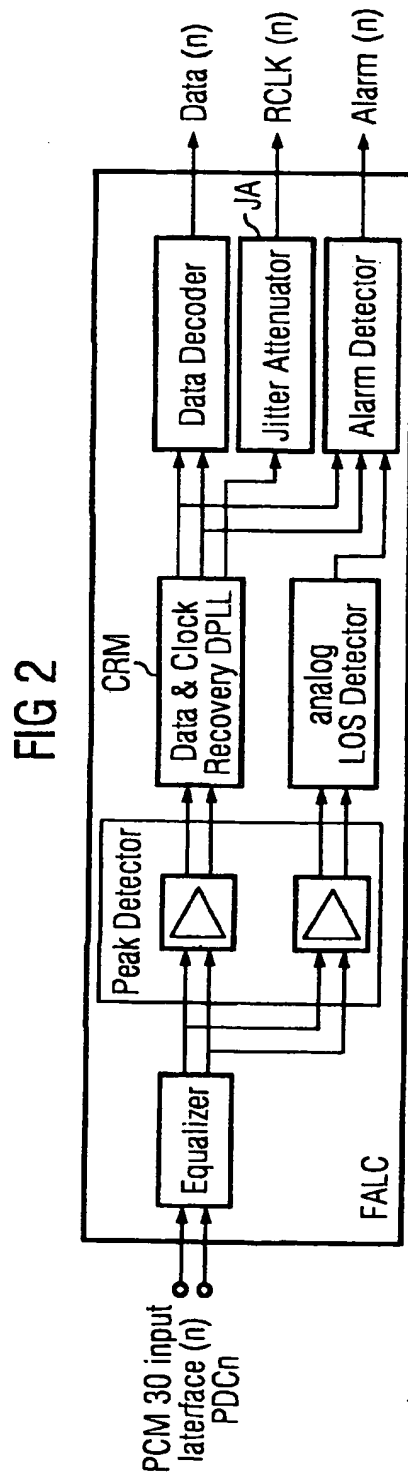


FIG 4

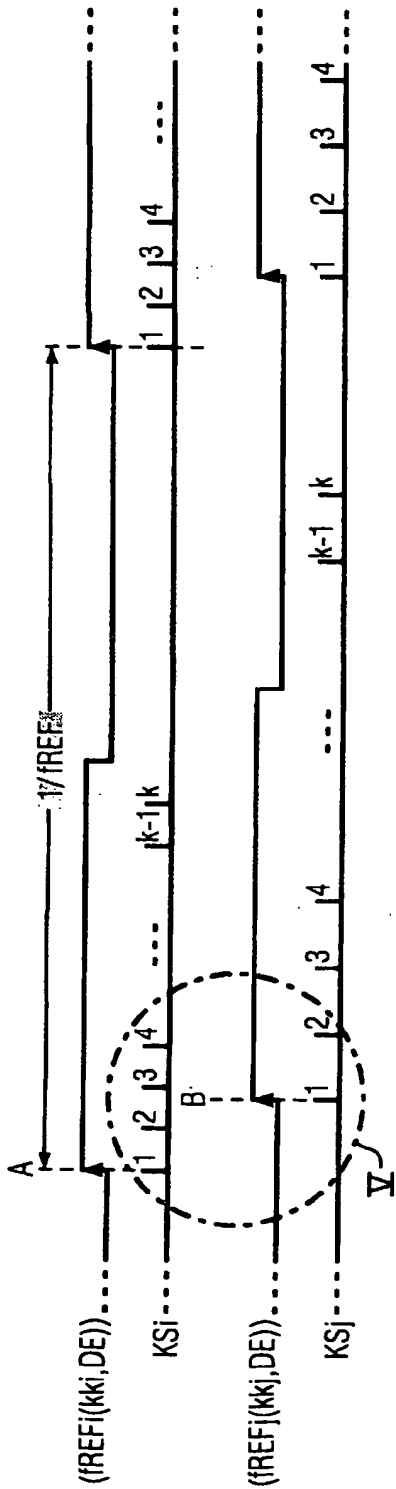
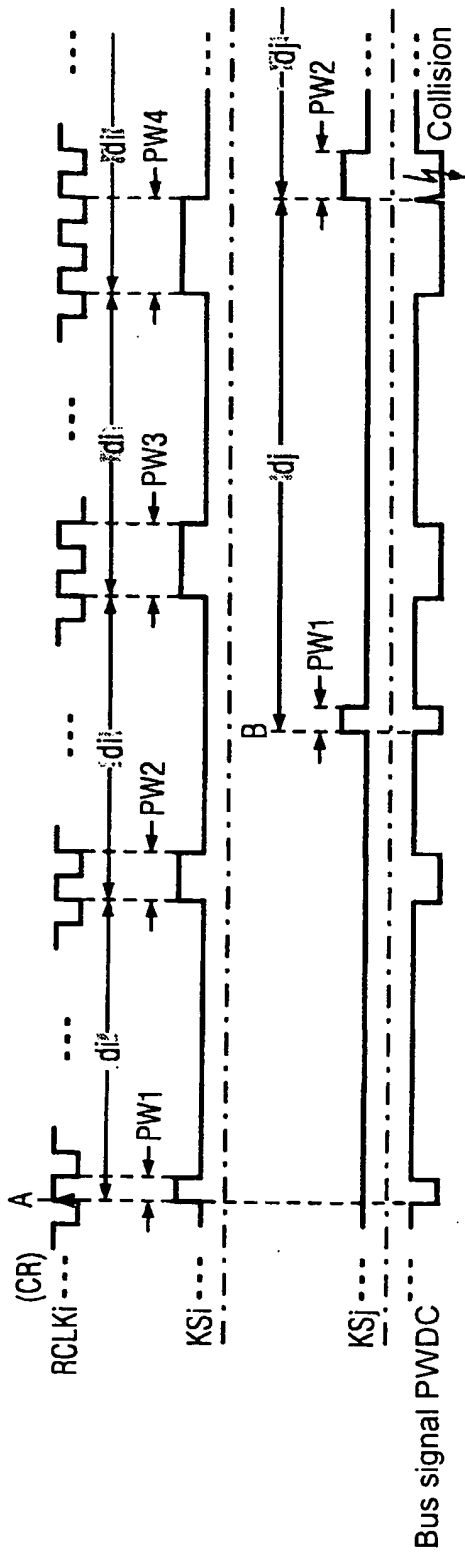


FIG 5



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FIG 6

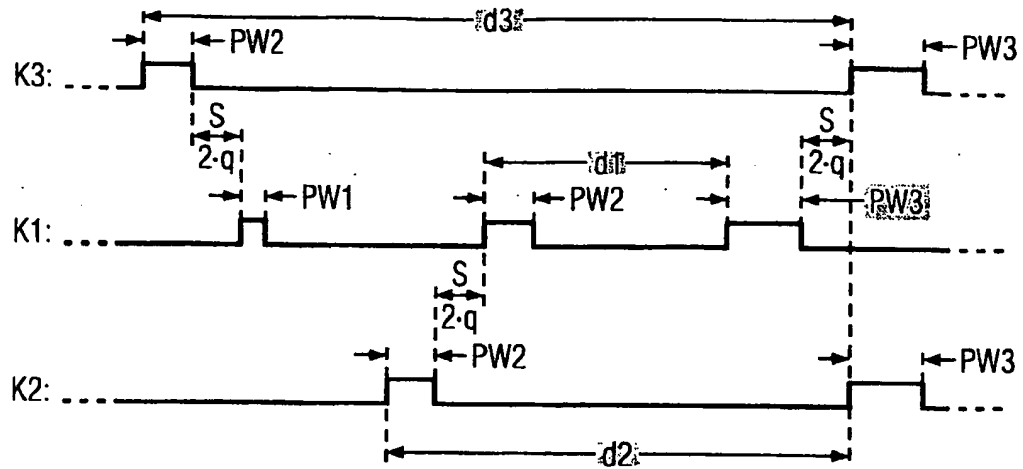


FIG 7

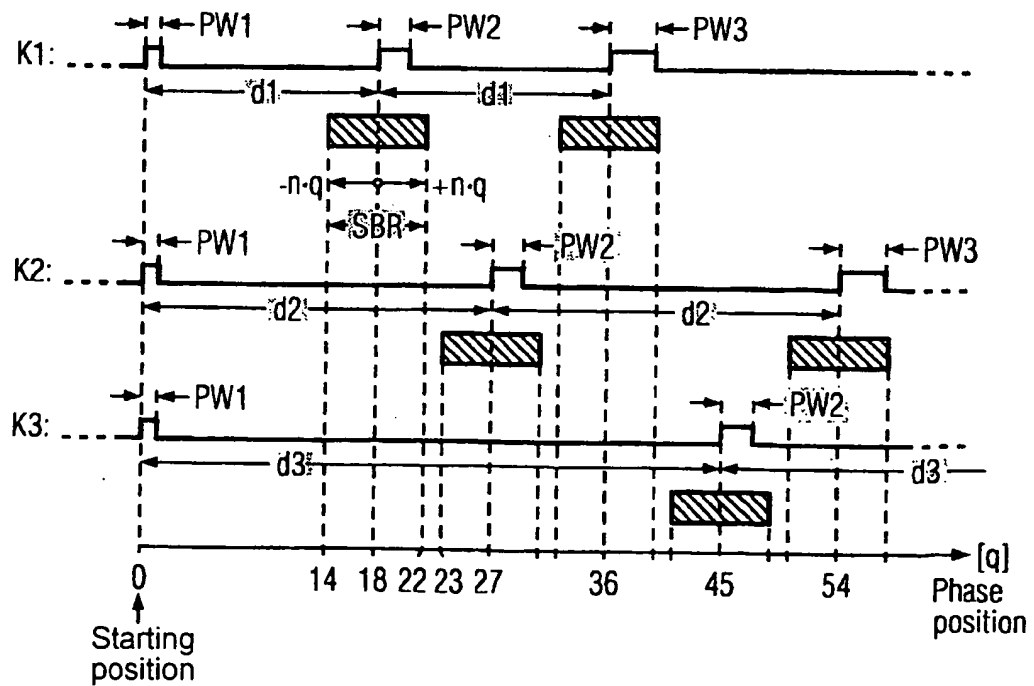


FIG 9

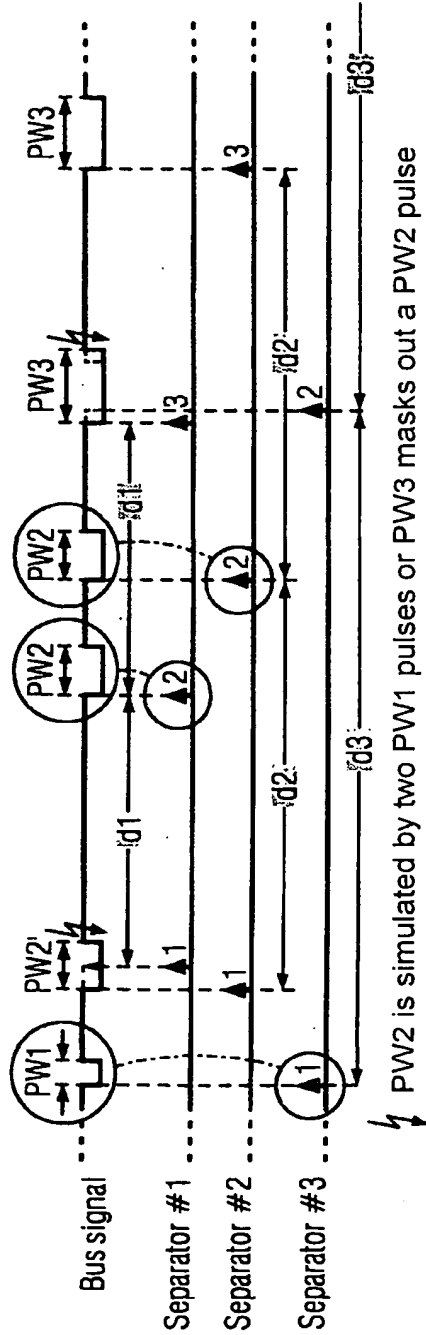
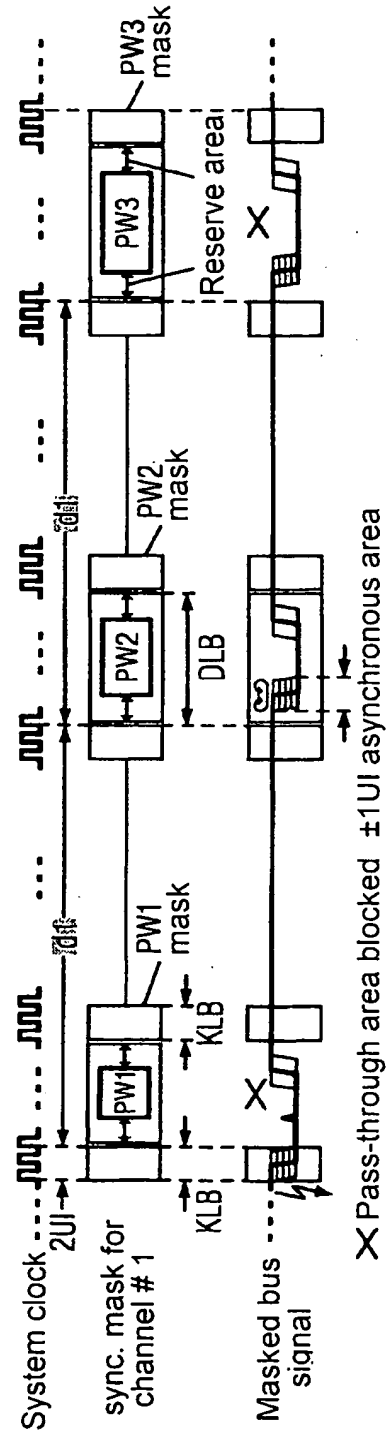


FIG 10



3-channel PWDC system

Pulse widths: $PW1=q$; $PW2=2q$; $PW3=3q$ [$n=4$ for 2q safety margin]
Quantizing (q) = $\boxed{61}$ ns Blocking area (n) = $\boxed{4}$ Max. reference freq. = $\boxed{118}$ kHz
 $d1$ (distance) = $\boxed{18}$ > 18 $d2$ (distance) = $\boxed{27}$ > 27 $d3$ (distance) = $\boxed{45}$ > 45
 $d1(-n-q...+n-q) = 14...22$ $d2(-n-q...+n-q) = 23...31$ $d3(-n-q...+n-q) = 41...49$
 $2d1(-n-q...+n-q) = 32...40$ $2d2(-n-q...+n-q) = 50...58$ $2d3(-n-q...+n-q) = 86...94$

FIG 11

opt. scheme →	1.	2.	4.
for gapless interleaving	3.	5.	6.
Pulse distance algorithm →			
1) $d1 > = 2(2n+1)$			
2) $d2 > = d1 + (2n+1)$			
3) $d3 > = 2d1 + (2n+1)$			

4-channel PWDC system

Pulse widths: $PW1=q$; $PW2=2q$; $PW3=3q$; $PW4=4q$ [$n=5$ for 2q safety margin]
Quantizing (q) = $\boxed{61}$ ns Blocking area (n) = $\boxed{5}$ Max. reference freq. = $\boxed{52}$ kHz
 $d1$ (distance) = $\boxed{33}$ > 33 $d2$ (distance) = $\boxed{44}$ > 44 $d3$ (distance) = $\boxed{55}$ > 55 $d4$ (distance) = $\boxed{77}$ > 77
 $d1(-n-q...+n-q) = 28...38$ $d2(-n-q...+n-q) = 39...49$ $d3(-n-q...+n-q) = 50...60$ $d4(-n-q...+n-q) = 72...82$
 $2d1(-n-q...+n-q) = 61...71$ $2d2(-n-q...+n-q) = 83...93$ $2d3(-n-q...+n-q) = 105...115$ $2d4(-n-q...+n-q) = 149...159$
 $3d1(-n-q...+n-q) = 94...104$ $3d2(-n-q...+n-q) = 127...137$ $3d3(-n-q...+n-q) = 160...170$ $3d4(-n-q...+n-q) = 226...236$

FIG 12

opt. scheme →	1.	2.	3.	5.
for gapless interleaving	4.	6.	8.	10.
	7.	9.	11.	12.
Pulse distance algorithm →				
1) $d1 > = 3(2n+1)$				
2) $d2 > = d1 + (2n+1)$				
3) $d3 > = d2 + (2n+1)$				
4) $d4 > = 2d1 + (2n+1)$				